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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
0942.4330003APPLICATION NO.
09/245,025APPLICANT
GERARD, et al.FILING DATE
February 5, 1999GROUP
1643 1652

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
ne	AA1	4,663,290	05/05/1987	Weis et al.	435	253	01/21/1982
ne	AB1	4,889,818	12/26/1989	Gelfand et al.	435	194	06/17/1987
ne	AC1	4,965,188	10/23/1990	Mullis et al.	435	6	06/17/1987
ne	AD1	5,244,797	09/14/1993	Kotewicz et al.	435	194	03/18/1991
ne	AE1	5,310,652	05/10/1994	Gelfand et al.	435	6	06/24/1993
ne	AF1	5,322,770	06/21/1994	Gelfand, D.H.	435	6	12/22/1989
ne	AG1	5,374,553	12/20/1994	Gelfand et al.	435	252.3	08/13/1990
ne	A11	5,405,776	04/11/1995	Kotewicz et al.	435	252.33	01/24/1992
ne	A11	5,407,800	04/18/1995	Gelfand et al.	435	6	06/17/1993
ne	AJ1	5,436,149	07/25/1995	Barnes, W.M.	435	194	02/19/1993
ne	AK1	5,512,462	04/30/1996	Cheng, S.	435	91.2	02/25/1994

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
ne	AL1	WO 92/06188	04/16/1992	WIPO	—	—	Yes No
ne	AM1	WO 92/06200	04/16/1992	WIPO	—	—	Yes No
ne	AN1	WO 96/10640	04/11/1996	WIPO	—	—	Yes No
ne	AO1	WO 97/24455	07/10/1997	WIPO	—	—	Yes No
ne	AP1	EP 0 791 650 A1	08/27/1997	Europe	—	—	Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

ne	AR	1	Aatinski, J.T., et al., "A Coupled One-Step Reverse Transcription PCR Procedure For Generation of Full-Length Open Reading Frames," <i>BioTechniques</i> 16:282-288 (1994).
ne	AS	1	Abbotts, J., et al., "Mechanism of HIV-1 Reverse Transcriptase," <i>J. Biol. Chem.</i> 268:10312-10323 (May 1993).
ne	AT	1	Alexander, F., et al., "Proteolytic Processing of Avian Sarcoma and Leukosis Viruses pol-endo Recombinant Proteins Reveals Another pol Gene Domain," <i>J. Virol.</i> 61:534-542 (February 1987).

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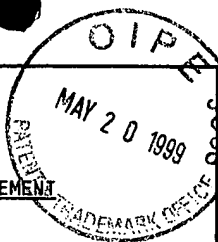
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				APPLICANT GERARD, et al.		FILING DATE February 5, 1999		GROUP 1643	
U.S. PATENT DOCUMENTS									
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE		
<i>Ne</i> <i>Ne</i> <i>Ne</i> <i>Ne</i> <i>Ne</i> <i>Ne</i> <i>Ne</i>	AA2	5,556,771	09/17/1996	Shen et al.	435	91.2	02/10/1995		
	AB2	5,561,058	10/01/1996	Gelfand, et al.	435	912	5/24/1995		
	AC2	5,618,702	04/08/1997	Scanlon, K.J.	435	91.2	08/06/1993		
	AD2	5,618,703	04/08/1997	Gelfand et al.	435	91.2	02/22/1994		
	AE2	5,618,711	04/08/1997	Gelfand et al.	435	194	02/06/1995		
	AF2	5,624,833	04/29/1997	Gelfand et al.	435	194	06/07/1995		
	AG2	5,641,864	06/24/1997	Gelfand, D.H.	530	350	09/22/1994		
	AH2	5,668,005	09/16/1997	Kotewicz et al.	435	194	03/12/1996		
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FOREIGN PATENT DOCUMENTS									
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION		
<i>Ne</i> 	AL2	WO 98/51789	11/19/1998	WIPO			Yes No		
	AM						Yes No		
	AN						Yes No		
	AO						Yes No		
	AP						Yes No		
OTHER (Including Author, Title, Date, Pertinent Pages, etc.)									
<i>Ne</i> 	AR	2	Anderson, D., et al., "Rapid Generation of Recombinant Baculovirus and Expression of Foreign Genes Using the BAC-TO-BAC™ Baculovirus Expression System," <i>FOCUS</i> 17:53-58 (1995).						
	AS	2	Barnes, W.M., "The fidelity of <i>Taq</i> polymerase catalyzing PCR is improved by an N-terminal deletion," <i>Gene</i> 112:29-35 (1992).						
	AT	2	Barr, P.J., et al., "Expression of Active Human Immunodeficiency Virus Reverse Transcriptase in <i>Saccharomyces cerevisiae</i> ," <i>BioTechnology</i> 5:486-489 (May 1987).						
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	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

ne	AR	3	Berger, S.L., et al., "Reverse Transcriptase and Its Associated Ribonuclease H: Interplay Two Enzyme Activities Controls the Yield of Single-Stranded Complementary Deoxyribonucleic Acid," <i>Biochemistry</i> 22:2365-2372 (1983).
ne	AS	3	Chattopadhyay, D., et al., "Purification and Characterization of Heterodimeric Human Immunodeficiency Virus Type 1 (HIV-1) Reverse Transcriptase Produced by <i>in Vitro</i> Processing of p66 with Recombinant HIV-1 Protease," <i>J. Biol. Chem.</i> 267:14227-14232 (July 1992).
ne	AT	3	Chernov, A.P., et al., "Recombinant Reverse Transcriptase of Rous Sarcoma Virus: Characterization of DNA Polymerase and RNAase H activities," <i>Biomed. Sci.</i> 2:49-53 (1991).

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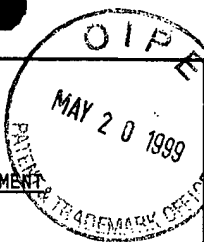
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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

we	AR	4	Dudding, L.R., et al., "Analysis of the RNA- and DNA-Dependent DNA Polymerase Activities of Point Mutants of HIV-1 Reverse Transcriptase Lacking Ribonuclease H Activity," <i>Biochemistry</i> 30:10498-10506 (1991)
we	AS	4	Freeman, W.M., et al., "Use of Elevated Reverse Transcription Reaction Temperature in RT-PCR," <i>BioTechniques</i> 20:782-783 (May 1996).
we	AT	4	Flaman, J.M., et al., "A Rapid PCR Fidelity Assay," <i>Nucl. Acids Res.</i> 22:3259-3260 (August 1994).

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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

Me	AR	5	Gerard, G.F., et al., "Poly(2'-O-methylcytidylate) Oligodeoxyguanylate as a Template for the Ribonucleic Acid Directed Deoxyribonucleic Acid Polymerase in Ribonucleic Acid Tumor Virus Particles and a Specific Probe for the Ribonucleic Acid Directed Enzyme in Transformed Murine Cells," <i>Biochemistry</i> 13:1632-1641 (April 1974).
Me	AS	5	Gerard, G.F., et al., "cDNA Synthesis by Clone Moloney Murine Leukemia Virus Reverse Transcriptase Lacking RNase H Activity," <i>FOCUS</i> 11:66-69 (1989).
Me	AT	5	Gerard, G.F. et al., "cDNA Synthesis by Moloney Murine Leukemia Virus Rnase H-Minus Reverse Transcriptase Possessing Full DNA Polymerase Activity," <i>FOCUS</i> 14:91-93 (1992).

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we	AR	6	Gerard, G.F., "Reverse Transcriptase: A Historical Perspective," <i>FOCUS</i> 20(3):65-67 (Fall 1998).
we	AS	6	Grandgenett, D.P., et al., "A Single Subunit from Avian Myeloblastosis Virus with Both RNA-Directed DNA Polymerase and Ribonuclease H Activity," <i>Proc. Natl. Acad. Sci. USA</i> 70:230-234 (January 1973).
we	AT	6	Grandgenett, D.P., et al., "Large-Scale Purification of Ribonucleic Acid Tumor Viruses by Use of Continuous-Flow Density Gradient Centrifugation," <i>Appl. Microbiol.</i> 26:452-454 (September 1973).

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we	AR	Z	Gubler, U., and Hoffman, B.J., "A Simple and Very Efficient Method for Generating cDNA Libraries," <i>Gene</i> 25:263-26 (November 1983).
we	AS	Z	Hizi, A., and Joklik, W.K., et al., "RNA-dependent DNA Polymerase of Avian Sarcoma Virus B77," <i>J. Biol. Chem.</i> 252:2281-2289 (April 1977)..
we	AT	Z	Hizi, A., et al., "Mutational Analysis of the Ribonuclease H Activity of Human Immunodeficiency Virus 1 Reverse Transcriptase," <i>Virology</i> 175:575-580 (1990).

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Me	AR	8	Hostomsky, Z., et al., "Reverse Transcriptase of Human Immunodeficiency Virus Type 1: Functionality of Subunits of the Heterodimer in DNA Synthesis," <i>J. Virol.</i> 66:3179:3182 (May 1992).
Me	AS	8	Houts, G.E., et al., "Reverse Transcriptase from Avian Myeloblastosis Virus," <i>J. Virol.</i> 29:517-522 (February 1979).
Me	AT	8	Huber, H.E., et al., "Human Immunodeficiency Virus 1 Reverse Transcriptase," <i>J. Biol. Chem.</i> 264:4469-4678 (March 1989).

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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

me	AR	2	Johnson, M.S., et al., "Computer analysis of retroviral <i>pol</i> genes: Assignment of enzymatic functions to specific sequences and homologies with nonviral enzymes," <i>Proc. Natl. Acad. Sci. USA</i> 83:7648-7652 (October 1986).
me	AS	2	Kanaya, S., et al., "Identification of the Amino Acid Residues Involved in an Active Site of <i>Escherichia coli</i> Ribonuclease H by Site-directed Mutagenesis," <i>J. Biol. Chem.</i> 265:4615-4621.
me	AT	2	Kawa, S., et al., "Expression and Purification of the HIV-1 Reverse Transcriptase Using the Baculovirus Expression Vector System," <i>Prot. Exp. Purif.</i> 4:298-303 (August 1993).

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OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

we	AR	10	Knapp, B., et al., "In vitro translation of <i>Plasmodium falciparum</i> aldolase is not initiated at an unusual site," <i>EMBO J.</i> 10:3095-3097 (October 1991).
we	AS	10	Kokko, H.I., et al., "Single-Step Immunocapture RT-PCR in the Detection of Raspberry Bushy Dwarf Virus," <i>BioTechniques</i> 20:842-846 (May 1996).
we	AT	10	Kotewicz, M.L., et al., "Isolation of Cloned Maloney Murine Leukemia Virus Reverse Transcriptase Lacking Ribonuclease H Activity," <i>Nucl. Acids Res.</i> 16:265-277 (1988).

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me	AR	11	Krug, M.S., et al.. "First-Strand cDNA Synthesis Primed with Obligo(dT)," <i>Meth. Enzymol.</i> 152:316-325 (1987).
me	AS	11	Lawyer, F.C., et al., "High-Level Expression, Purification, and Enzymatic Characterization of Full-Length <i>Thermus aquaticus</i> DNA Polymerase and a Truncated Form Deficient in 5' to 3' Exonuclease Activity," <i>PCR Meth. Appl.</i> 2:275-287 (May 1993).
me	AT	11	Lee, E.H., et al.. "A Highly Sensitive Method for One-Step Amplification of RNA by Polymerase Chain Reaction," <i>FOCUS</i> 19:39-42 (Spring 1997).

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NE	AR	12	Le Grice, S.F.J., and Grüniger-Leitch, F., "Rapid Purification of Homodimer and Heterodimer HIV-1 Reverse Transcriptase by Metal Chelate Affinity Chromatography," <i>Eur. J. Biochem.</i> 187:307-314 (January 1990).
NE	AS	12	Le Grice, S.F.J., "Human Immunodeficiency Virus Reverse Transcriptase," in <i>Reverse Transcriptase</i> . Shalka, A.M., and Goff, S.P., Eds., Cold Spring Harbor, New York: Cold Spring Harbor Laboratory Press, pp. 163-191 (1993).
NE	AT	12	Lowe, D.M., et al., "HIV-1 Reverse Transcriptase: Crystallization and Analysis of Domain Structure by Limited Proteolysis," <i>Biochemistry</i> 27:8884-8889 (December 1988).

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ME	AR	13	Mallet, F., et al.. "Continuous RT-PCR Using AMV-RT and Taq DNA Polymerase: Characterization and Comparison to Uncoupled Procedures," <i>BioTechniques</i> 18:678-687 (April 1995).
ME	AS	13	Messer, L.I., et al.. "Functional Analysis of Reverse Transcription by a Frameshift pol Mutant of Murine Leukemia Virus," <i>Virology</i> 146:146-152 (1985).
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FORM PTO-1449 <u>INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0942.4330003	APPLICATION NO. 09/245,025
	APPLICANT GERARD, <i>et al.</i>	
	FILING DATE February 5, 1999	GROUP 1643

U.S. PATENT DOCUMENTS							
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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
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	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

we re.	AR	14	Mizrahi, V., <i>et al.</i> , "Site-directed mutagenesis of the conserved Asp-443 and Asp-498 carboxy-terminal residues of HIV-1 reverse transcriptase," <i>Nucl. Acids Res.</i> 18:5359-5363 (September 1990).
we	AS	14	Müller, B., <i>et al.</i> , "Co-expression of the Subunits of the Heterodimer of HIV-1 Reverse Transcriptase in <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> 264:13975-13978 (August 1989).
we	AT	14	Myers, T.W., and Gelfand, D.H., "Reverse Transcription and DNA Amplification by a <i>Thermus thermophilus</i> DNA Polymerase," <i>Biochemistry</i> 30:7661-7666 (August 1991).

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Ne	AR	15	Prasad, V.R., et al., "Genetic Analysis of Retroviral Reverse Transcriptase Structure and Function," in <i>Reverse Transcriptase</i> , Skalka, A.M., and Goff, S.P., Eds., Cold Spring Harbor, New York: Cold Spring Harbor Laboratory Press, pp. 135-162 (1993).
Ne	AS	15	Repaske, R., et al., "Inhibition of RNase H Activity and Viral Replication by Single Mutations in the 3' Region of Moloney Murine Leukemia Virus Reverse Transcriptase," <i>J. Virol.</i> 63:1460-1464 (March 1993).
Ne	AT	15	Saiki, R.K., et al., "Primer-Directed Enzymatic Amplification of DNA with a Thermostable DNA Polymerase," <i>Science</i> 239:487-491 (January 1988).

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ME	AR	16	Sambrook, J., et al., "Protocol for the Synthesis of the First Strand of cDNA," in <i>Molecular Cloning: A Laboratory Manual 2nd Edition</i> , Cold Spring Harbor, New York: Cold Spring Harbor Laboratory Press, pp. 8.60-8.63 (1989).
ME	AS	16	Schwartz, D.E., et al., "Nucleotide Sequence of Rous Sarcoma Virus," <i>Cell</i> 32:853-869 (March 1983).
ME	AT	16	Sellner, L.N., et al., "Reverse transcriptase inhibits Taq Polymerase Activity," <i>Nucl. Acids Res.</i> 20:1487-1490 (1992).

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we	AR	17	Sitaraman, K., et al.. "RT-PCR of Difficult Templates Using the Superscript One-Step™ RT-PCR System," <i>FOCUS</i> 19:43-44 (Spring 1997).
we	AS	17	Skalka, A.M., et al.. "Endonuclease Activity Associated with Reverse Transcriptase of Avian Sarcoma-Leukosis Viruses," in <i>Reverse Transcriptase</i> , Skalka, A.M., and Goff, S.P., Eds., Cold Spring Harbor, New York: Cold Spring Harbor Laboratory Press, pp. 193-204 (1993).
we	AT	17	Soltis, D.A., and Skalka, A.M., "The α and β chains of avian retrovirus reverse transcriptase independently expressed in <i>Escherichia coli</i> : Characterization of Enzymatic Activities," <i>Proc. Natl. Acad. Sci. USA</i> 85:3372-3376 (May 1988).

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Ne	AR	18	Stahlhut, M., et al., "Purification and Characterization of HIV-1 Reverse Transcriptase Having a 1:1 Ratio of p66 and p51 Subunits," <i>Prot. Exp. Purif.</i> 5:614-621 (December 1994).
Ne	AS	18	Strauss, E.M., et al., "Efficient Production of Mammalian RNA Tumor Viruses in Serum-Free Culture Medium Allows Rapid RNA Subunit Purification," <i>J. Virol. Meth.</i> 1:213-221 (1980).
Ne	AT	18	Telesnitsky, A., and Goff, S.P., "RNase H domain mutations affect the interaction between Moloney murine leukemia virus reverse transcriptase and its primer-template," <i>Proc. Natl. Acad. Sci. USA</i> 90:1276-1280 (February 1993).

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AR	19	Wang, R.F., et al., "A Simplified, Single Tube, Single Buffer System for RNA-PCR," <i>BioTechniques</i> 12:702,704 (May 1992).
AS	19	Weaver, D.T., and DePamphilis, M.L., "Specific Sequences in Native DNA that Arrest Synthesis by DNA Polymerase α ," <i>J. Biol. Chem.</i> 257:2075-2086 (February 1982).
AT	19	Boehringer Mannheim Biochemicals, "Reverse Transcriptase AMV," "Reverse Transcriptase M-MuLV," Reverse Transcriptase, HIV-1," Products Catalogue, pp.92-93, (1995).

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	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

ME	AR	20	Life Technologies, Inc., "GIBCO BRL Baculovirus Expression Products," Product Technical Literature (1996).
ME	AS	20	Toyobo, Tokyo, Japan, "M-MLV Reverse Transcriptase (Rnase H-) ReverTraAce," Product Literature (1998).
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FORM PTO-1449 <u>SEVENTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT</u>	ATTY. DOCKET NO. 0942.4330003/RWE/1TT	APPLICATION NO. 09/245,025
	APPLICANT Gerard et al.	
	FILING DATE February 5, 1999	GROUP 1652

U.S. PATENT DOCUMENTS							
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	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
NE	AR	28	Tosh, C., et al., "One-Tube and One-Buffer System of RT-PCR Amplification of 1D Gene of Foot-and-Mouth Disease Virus Field Isolates," Acta Virol. 41:153-155, Slovak Academic Press, Ltd. (June 1997)
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